

CLIPPEDIMAGE= JP361084361A
PAT-NO: JP361084361A
DOCUMENT-IDENTIFIER: JP 61084361 A
TITLE: MANUFACTURE OF PSEUDOELASTIC SPRING

PUBN-DATE: April 28, 1986

INVENTOR-INFORMATION:

NAME

YAMAUCHI, KIYOSHI

SATO, SHOICHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

TOHOKU METAL IND LTD

N/A

APPL-NO: JP59202914

APPL-DATE: September 29, 1984

INT-CL (IPC): C22F001/10; C22C019/03 ; F16F001/02
US-CL-CURRENT: 148/563

ABSTRACT:

PURPOSE: To manufacture a continuous-rectilinear pseudoelastic spring having high stress as a pseudoelastic property at the temp. close to body temp., by subjecting a TiNi alloy having a specific composition to cold rolling, and then to continuous annealing at a specified temp. with applying tension.

CONSTITUTION: The TiNi alloy, consisting of ≥50.5% Ni and the balance Ti and showing thermoelastic-type martensite transformation, is cold-rolled at ≥30% draft and then subjected to continuous annealing at

300~450°C with the application of tension. By this, the pseudoelastic spring having a rectilinear shape and showing a high flow stress of \geq about 60kg/mm² at the temp. of about 35°C close to body temp. can be obtained.

COPYRIGHT: (C)1986, JPO&Japio